



More than 90% of Bacteria and Virus listed below would be killed in only ONE Times pass through "OceanClean" – *Germ Hunter*

ORGANISM	Comment	UVC - LETHAL DOSE Required to kill the bacteria (microWatt.sec/cm2)	Germ Hunter: 4280 (microWatt.sec/cm2) "OceanClean" would Kill the Bacteria and Virus
			Nos. of pass
Bacillus anthracis		1960	1
Bacillus magaterium sp.	Spores	1190	1
Banillus magaterium sp.	Veg.	565	1
Bacillus paratyphusus		3200	1
Bacillus subtilis spores		11600	3
Bacillus subtilis		2500	1
Clostridium tetani		5600	2
Corynebacterium dephteriae		1460	1
Eberthella typosa		930	1
Escherichiae coli		1300	1
Leptospira Canicoal	Infections Jaundice	1370	1
Microccocus candidus		2630	1
Microccous spheroides		430	1
Myrobacterium tuberculosis		2700	1
Neisseria catarrhalis		1900	1
Phtomonas tumeficiens		1900	1
Proteus vulgaris		1300	1
Pseudomonas aeruginosa		2400	1
Pseudomonas fluorescens		1520	1
Salmonella enteritidis		1740	1
Salmonella paratyphi	Enteic fever	1390	1
Salmonella typhosa	Typhoid fever	935	1
Salmonella typhimurium		3470	1
Sarcina lutea		8560	2
Serratia marcescens		1050	1
Shigella dysenteriae	Dysentery	960	1
Shigella flexneri	Dysentery	740	1
Shigella paradysenteriae		730	1
Spirillum rubrum		1900	1
Staphylococcus albus		800	1
Staphylococcus aureus		1130	1
Streptococcus hemolyticus		940	1
Streptococcus lactis		2670	1
Streptococcus viridans		870	1
Vibrio comma	Cholera	1470	1
Mucor racemosus A	White-gray color	7400	2

Mucor racemosus B	White-gray color	7400	2
Oospora lactis	White color	2200	1
Penicillium expansum	Olive color	1300	1
<b>PROTOZOA</b>			
Chlorella vulgaris	Algae	5650	2
Nematode	Eggs	1740	1
Paramecium		4780	2
<b>VIRUS</b>			
Bacteriophage	E.Coli	1130	1
Infectious Hepatitis		2520	1
Influenza	Common flue	1480	1
Poliovirus - Poliomyelitis		1370	1
<b>YEAST</b>			
Brewers yeast		1430	1
Common yeast	Cake	2610	1
Saccharomyces carevisiae		2610	1
Saccharomyces ellipsoideus		2610	1
Saccharomyces sp.	Spores	3470	1

#### Tips:

Please note that many variables (air flow, humidity, distance of microorganism to the UV light, irradiation time) take place in a real world environment that make actual calculating of the UV dosage very difficult. However, it is proven that UV light will kill any DNA-based microorganism given enough UV dosage. UV breaks down DNA on a cumulative basis. Therefore, as air circulates through the air cleaner containing an UV light, the UV light continuously disinfects the air. If a microorganism is not effectively deactivated on the first pass through the air cleaner, the UV light will continue to break its DNA down on subsequent passes. Microorganisms do not sit in a static environment in air cleaner except on cooling coils of a HVAC system, which can be exposed to UV light also. Microorganisms multiply rapidly if not controlled. The UV light helps to reduce airborne microorganisms from the indoor environment.

The above are incident energies of germicidal ultraviolet radiation at 253.7 nanometers wavelength necessary to inhibit colony formation in microorganisms (90%) and for 2-log reduction (99%):

OceanClean – Germ Hunter tell you that to determinate the air cleaner can really kill the bacteria and virus in your environment, it's depends on the UV Dosage of the UV Lamp can provide.

市面上有不用牌子的紫外光殺菌燈或紫外線空氣淨化器, 同樣可做到不同程度的殺菌效能, 但一般市民都可能不知, 一支紫外光殺菌燈的效能是取決於它的 "Dosage – microwatts. Sec. per/cm<sup>2</sup>". 一支高效的紫外光燈比一支普通家用式紫外線空氣清新機內的紫外光燈可能相差幾十倍的效果. 選擇時請加以留意.